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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/616,370

07/08/2003

John J. Light

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1226

8791

7590

09/22/2006

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EXAMINER

SON, LINH L D

ART UNIT

PAPER NUMBER

2135

DATE MAILED: 09/22/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/616,370

Applicant(s)

LIGHT ET AL.

Examiner

Linh LD Son

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 08 July 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-21 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date 03/05
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

### DETAILED ACTION

1. This Office Action is responding to the file of the application received on 07/08/03.

2. Claims 1-21 are pending.

#### ***Claim Rejections - 35 USC § 102***

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1-21 are rejected under 35 U.S.C. 102(e) as being anticipated by Juels et al, US Publication No. 20020029341A1, hereinafter "Juels", in view of Pering et al, US Publication No. 20040093527A1, hereinafter "Pering"

5. As per claims 1, and 9:

Juels discloses "A method of authenticating a user attempting to access a portable computing device comprising:

"causing a sequence of images to be shown on a display";

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"accepting an input selection from the user indicating that a currently displayed image of the sequence of images corresponds to a portion of the user's password, the user's password being known by the portable computing device" in (Fig 7, Para 0064-65);

"correlating the input selection to the currently displayed image" in (Para 0071-72) [The point of graphical selections are then calculated with respect to the displayed image to generate a codeword for authentication]; and

"allowing access to the portable computing device when the input selection and the currently displayed image temporally correspond to the portion of the user's password" in (Para 0134-136, and 0147).

However, Juels does not disclose "Causing a sequence of images to be show on a display". Juels only discloses a capability of displaying multiple graphical images (Para 21),

Nevertheless, Pering discloses "Method of Authentication Using Familiar Photographs", which includes a method of display a sequence of image and selecting the image for authentication match (Para 0037).

Therefore, it would have been obvious at the time of the invention was made for one having ordinary skill in the art to modify Juels to incorporate the teaching of Pering to select display of a sequence of image for selecting by a user and from the selection an input from the user indicating that a currently displayed image corresponds to a portion of the user's password. The incorporation of Juels and Pering would further

increase the security level in authentication due to the challenge of selecting the correcting for input the graphical selection for authentication.

6. As per claims 2 and 10;

Juels discloses "The method of claims 1 and 9, wherein the password comprises a plurality of portions, and further comprising repeating the causing, accepting and correlating for each of the plurality of password portions, and allowing access to the portable computing device when all input selections correlated to displayed images temporally correspond to the password" in (Para 0136-0138, 140, and 0147).

7. As per claims 3, 11, and 17:

Pering discloses "The method of claims 1, 9, and 16, wherein causing the sequence of images to be shown on a display comprises sending the sequence of images over a wireless link to a computing system including the display" in (Para 0044, The photographic authentication technique can implemented in Mobile phone, and etc..).

8. As per claims 4 and 12:

Pering discloses "The method of claims 1 and 9, further comprising setting the user password in the portable computing device prior to causing the sequence of images to be shown on the display" in (Para 0036-37, the process of loading the images and training process to set the password pre-selecting the images).

9. As per claims 5, 18, and 13;

Juels and Pering discloses "The method of claims 1, 16, and 9, wherein each image of the sequence of images comprises a plurality of symbols, the symbols comprising at least one of alphanumeric characters, playing card values, sports team logos, company logos, cartoon characters, and photographs, and each password portion comprises at least one symbol" in (Figure 7, Para 0064-65) [User select a region of an image in Figure 7, the regions are photographs symbols in the image].

10. As per claims 6 and 14:

Juels discloses "The method of claims 1 and 9, further comprising causing the display of visual feedback to the user when a portion of the user's password is correctly selected" in (Figure 7).

11. As per claim 7:

Pering discloses "The method of claim 1, wherein the display is part of a computing system un-trusted by the user" in (Para 0022).

12. As per claims 8, 19, and 15:

Pering discloses "The method of claims 7 and 16, further comprising establishing an authenticated connection from the portable computing device to the un-trusted computing system including the display prior to causing the sequence of images to be shown on the display" in (Para 0027).

13. As per claim 16:

Juels discloses "A portable computing device comprising:  
a memory [Para 0131] to store instructions and data; a processor [Para 0131, Processor] to execute the instructions obtained from the memory to cause a sequence of images to be shown on a display of an un-trusted computing system, to accept an input selection from a user indicating that a currently displayed image of the sequence of images corresponds to a portion of the user's password, the user's password being known by the portable computing device" in (Fig 7, Para 0064-65), to correlate the input selection to the currently displayed image" in (Para 0071-72) [The point of graphical selections are then calculated with respect to the displayed image to generate a codeword for authentication]; and

to allow access to the portable computing device when the input selection and the currently displayed image temporally correspond to the portion of the user's password" in (Para 0134-136, and 0147).

However, Juels does not disclose "cause a sequence of images to be shown on a display of an un-trusted computing system". Juels only discloses a capability of displaying multiple graphical images (Para 21)

Nevertheless, Perring discloses "Method of Authentication Using Familiar Photographs", which includes a method of display a sequence of image to be shown on a display of an un-trusted computing system, and selecting the image for authentication match (Para 0027, and 0037).

Therefore, it would have been obvious at the time of the invention was made for one having ordinary skill in the art to modify Juels to incorporate the teaching of Pering to select display of a sequence of image for selecting by a user and from the selection an input from the user indicating that a currently displayed image corresponds to a portion of the user's password. The incorporation of Juels and Pering would further increase the security level in authentication due to the challenge of selecting the correcting for input the graphical selection for authentication.

14. As per claim 20:

Juels discloses "The portable computing device of claim 16, further comprising a button for entering the input selection by the user, the button indicating one of activation and non-activation" in (Para 0059, touch-screen).

15. As per claim 21:

Juels discloses "The portable computing device of claim 16, wherein the memory stores the user's password and the sequence of images" in (Para 0132, and 147).

16. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Linh LD Son whose telephone number is 571-272-3856. The examiner can normally be reached on 9-6 (M-F).


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Vu can be reached on 571-272-3859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.



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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Linh LD Son  
Examiner  
Art Unit 2135



KIM VU  
SUPERVISORY PATENT EXAMINER  
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